# Municipality Generator Interconnection Application Single Meter Application – Part I

New Application Revised Application			
A single customer interconnecting to a single meter at a single premise makes a new / revised application this date 9/27/18 to the Municipality of Lewes to install and operate a generating facility interconnected with the Municipal's electric utility system.			
Section 1. Ownership Type:			
X Customer Owned and Operated Customer Leased and Operated Third Party Owned and Operated			
As an electric service customer of the Municipality of Lewes . I certify, as the interconnection applicant and by signature on this application that the contract arrangement between the generator owner and the generator wendor is for the sale of or lease of generator equipment only. I further certify under penalty of generator disconnect that the contract arrangement between the generator owner and generator vendor does not constitute a Power Purchase Agreement ("PPA") or otherwise involve the direct sale or invoice by the vendor to the customer for electricity generated in kilowatt-hours Applicant must attach a fully executed contract between the vendor and the applicant. At no time shall the applicant change the contract to a purchase power agreement (PPA) with the vendor or a third party. The Municipal Electric Utility has the right to promulgate rules and regulations and while we make best efforts to support our customers desire for net-metering the Municipal Electric Utility retains the right to decline third party power suppliers within the Municipal Electric Utility service territories.			
Section 2. Applicant Information: New Construction Existing Construction			
Name: Stuart Griffin Email: jstuartgriffin@me.com			
Mailing Address: 8 Duchess Ct			
City: Lewes State: DE Zip Code: 19958			
Facility Location (if different from above):			
Telephone (Daytime): Area Code 302 Number 542-7786 (Evening) Area Code Number			
Facility Age: Power Account No.:			
Section 3. Generator Technical Information			
Customer Type: X Residential Non-Residential Farm			
The purpose of interconnection is to Net Energy Meter ("NEM") X Yes No If No, the generator will not be NEM eligible and will be subject to additional tariff requirements.			
NEM Applicants Only:			
s Generator under: 25 kW for Residential, 500 kW for Non-Residential, 100 KW for Farm? X Yes No			
is Generator on a farm and applicant requests a waiver of the 100 kW limit?			
Type NEM Qualifying Energy Source: X Solar Wind Hydro Electric Car#			
Fuel Cell Anacrobic digestion of organic material			

Generator Equipment and Operation Details (If multiple different products are used please detail each)

Generator Manufacturer:	Q Cells
Generator Model Name:	Q.PEAK
Generator Model Number:	DUO-G5 320
Generator Output (kW):	9.92 kW
Inverter Manufacturer:	Enphase Energy
Inverter Model Name:	IQ
Inverter Model Number:	7
Inverter Power Rating (AC Watts):	250
Number of Inverters:	31
Inverter Efficiency %:	97
Intended Inverter Location:	Underneath Each Module
System Rated Output (Generator Output x Inverter Efficiency)	7.75 kW AC Capacity
Customer Consumption (2 year average) from Appendix A	
Generator Annual Production (kWh)	12,847 kWh

# If Generator is Photovoltaic include as well:

Module Power Rating (DC @ STC): Should match Generator Output (kW)	320w
Number of Modules:	31
Total Solar Output kW (Modules x Power Rating DC @ STC):	9.92 kW
Array Orientation (degrees): Note the size of each array that has different degrees.	220
Array Tilt (degrees): Note the size of each array that has different degrees.	35 , 20

Solar Shading Analysis Required (Solar Pathfinder or equivalent accepted): Solar Shading analysis should include readings at all four (4) points of each continuous array and one in the center. Shading analysis will be used by the utility in consideration of NEM benefits.

Any approved interconnections already in service at this location: Yes X No			
If yes please detail:			
The City of Dover requires an external disconnect to be installed on residential and commercial solar installations and accessible to maintenance workers without requiring entry into the dwelling or structure. This requirement adds a level of safety for our maintenance workers by eliminating the possibility of solar back feed when isolating circuits for scheduled or unscheduled maintenance.			
Section 4. Generator/Equipment Certification			
Generating systems that use inverter technology must be compliant with IEEE 929 and Underwriters Lab. UL 1741. Generating systems must be compliant with the Municipality's Power Delivery's Technical Considerations Covering Parallel Operations of Customer Owned Generation. By signing below, the Applicant certifies that the installed generating equipment meets the appropriate preceding requirements and can supply documentation that confirms compliance. The applicant also agrees that if any details about the generator system as detailed in Section 3 change, it is the applicant's sole responsibility to notify the Municipal Utility of those changes by submitting a revised Interconnection Application prior to commencing or completing construction / retrofit. The applicant agrees to wait to receive approval from the Municipal Utility of any revised Interconnection Application before proceeding with construction. Failure to notify the Municipal Utility in advance of system changes prior to submitting the Final As-Built Details could cause approval delays or denial of interconnection if the revised system is not compliant with NEM and/or Municipal Utility requirements.			
Section 5. Net Energy Metering			
Net Energy Metering is a service to customers which allows customers to generate electricity for their own needs (from an eligible on-site generating facility) and to deliver excess electric into the municipal electric system and then allows the customer to take electric from the municipal electric system when the customer cannot produce the electric required to sustain their own needs.			
The customer sited generating system shall be designed to produce no more than 110% of the initial design load. The initial design load shall be the calculated average of the two previous twelve-month periods of actual electric usage at the time of installation of electric generating equipment. For new building construction, the initial design load will equate to the electric consumption of units of similar size and characteristics at the time of installation of energy generating equipment as determined appropriate by the Municipal Electric Utility.			
Section 6. Applicant Signature			
I hereby certify that, to the best of my knowledge, all the information provided in this Part I Interconnection Application is true and correct.			
Signed (Applicant): Date: 9/27/18			
Print name: Stuart Griffin			
Call your municipal electric service to find out who should receive this Part I Interconnection Application. Make sure to include all application sections $(1-8)$ and Appendix A with new / revised submissions.			

# Section 7. Preliminary Generator/Equipment Installment Approval / Rejection The Municipal Utility: Approves Does NOT Approve Part I Interconnection Application for a (system type) 9.92 kW Solar generator as detailed in this application and located at (installation address) 8 Publics C+ Lewis, DE 1995 8 Signed (Municipal Utility): Abw Laboran Assistant Grand Manager Reason of Not Approving: Section 8. Internal Notifications A copy of the approved Application Part 1 must be sent to the Municipal Building Department. A copy of the approved Application Part 1 must be sent to the Delaware Municipal Electric Corporation ("DEMEC"). DEMEC P.O. Box 310 Smyrna, DE 19977

# Appendix A Customer Consumption and Generator Production

Item 1: Customer Consumption. Customer is to provide for existing construction 2 previous 12-month period(s) of actual electrical usage at the time of installation of energy generating equipment. For new construction provide estimated electrical consumption for units of similar size and characteristics at the time of installation of the energy generation equipment.

Month/Year	Year I Consumption	Year 2 Consumption			
	Previously Owned House				
	New Owner does not have regord of history of usage.				
		**************************************			
31 					
		V			
Annual Average					
2 Year Average					

The municipal utility will verify the above consumption numbers. If the customer provided consumption numbers differ from the utility the applicant may need to provide copies of actual electric bills at the request of the utility to support the information provided in Item 1.

Item 2: Generator Production. Customer is required to provide estimated annual production totals for the proposed generator and a calculation method in sufficient detail so the utility can recreate the estimated annual production totals. Calculation totals and method to be attached to Appendix A.

Item 3:	(check one)		
X	1 certify that I am applying for net energy metering privileges and produce no more than 110% of my facility's expected electric contact the 2 previous 12-month period(s) of actual electrical usage at the tilequipment.	sumption, ca	iculated on the average of
	I certify that I am applying for net metering benefits as a new being designed for electrical consumption as estimated at 110% of t and characteristics at the time of installation of the energy generation	he consump	tion of units of similar size
	y certify that, to the best of my knowledge, all the information	provided in	Appendix A is true and
correct. Signed (	(Applicant):	Date:	9/27/18
Print Na	me: Stuart Griffin		

# Municipality Generator Interconnection Application -Short Form Part II - Final As-Built Details

A single customer interconnecting to a single meter at a single premise provides Final As-Built Details this date to the Municipality of Lewes BPW, to install and operate a generating facility interconnected with the Municipal's utility system.		
Section 9. Installation Details		
James Dadalaua	State Licensed Electrician United Inc License No.: T1-0005686	
Mailing Address: 117 Dixon St		
City: Selbyville State: DE	Zip Code:	
Telephone: Area Code: <u>800</u> Number: <u>233-1144</u>		
Installation Completion Date:	Interconnection Date:	
Supply certification that the generating system has been instal Building/Electrical code of the municipality of		
Signed (Inspector):  (In lieu of signature of Inspector, a copy of the final inspection certificate may be attached)		
Generator Technical Information  The applicant certifies that the system described below is the Final application submitted by the applicant and approved by the m  Generator Equipment and Operation Details (If multiple different)	unicipality prior to the interconnection date.	
Generator Manufacturer:	Q Cells	
Generator Model Name:	Q.PEAK	
Generator Model Number:	DUO-G5 320	
Generator Output (kW):	9.92 kW	
Inverter Manufacturer:	Enphase Energy	
Inverter Model Name:	IQ	
Inverter Model Number:	7	
Inverter Power Rating (AC Watts):	250w	

Number of Inverters:	31	
Inverter Efficiency %:	97	
Intended Inverter Location:	Underneath Each Module	
System Rated Output (Generator Output x Inverter Efficiency)	7.75 kW Total AC Capacity	
If Generator is Photovoltaic include as well:		
Module Power Rating (DC @ STC): Should match Generator Output (kW)	320w	
Number of Modules:	31	
Total Solar Output kW (Modules x Power Rating DC @ STC):	9.92 kW	
Array Orientation (degrees): Note size of each array with different degrees.	220	
Array Tilt (degrees); Note size of each array with different degrees.	35, 20	
Required: Completed Generator Installation Pictures Attached: electric permits	Must show whole generator, inverters,	

## Section 10. Applicant Certifications

I hereby certify that, to the best of my knowledge, all the information provided in the Final As-Bullt Details is true and correct. I agree to install a Warning Label provided by the Municipality on or near my service meter location. I also agree to submit a new or revised Interconnection Application and comply with all governing permitting requirements before adding to in any way or subtract from in any way the current approved electric generating system; including but not limited to expanding, replacing, or removing all or a portion of the current system, adding a new generator type, and/or replacing in anyway the generator system inverter. I further agree to notify the utility in writing through official certified mail at least 30 days before I sell or transfer ownership of the system to another owner to allow the municipal electric utility to update records and determine if the new owner agrees to the generation and interconnection responsibilities associated with the transfer of ownership. A new property owner, of property that up until the time of sale had an approved Interconnection Agreement in place for net-metering, has 30 days to submit a new Interconnection Agreement for net-metering in his/her name. If the new owner fails to submit an Interconnection Agreement within 30 days of property transfer, certain net-metering transfer rights may be discontinued.

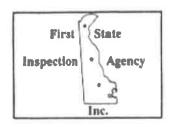
Failure for non-compliance to these certifications will be considered a violation of the net-metering agreement and may result in the disconnection of the electric generator at the discretion of the municipal electric utility. The sale or transfer of the electric generator shall not compromise law.

I further certify and understand that municipal utility review and approval of this application does not constitute an endorsement of actual equipment performance nor does it endorse its benefits or economics.
Signature of Applicant: Date: 11/07/18
Print Name: Stuart Griffin
Call your municipal electric service to find out who should receive this Part II Interconnection Application. Make sure to include all application sections $(9-12)$ with final submissions.
Section 11. Final Approval or Non-Approval for Interconnection and System Operation
The Municipal Utility: Approves Does NOT Approve
The interconnection of a 9.92 kw Solar generator as detailed in the Final As-Built Details and located
at (installation address) 8 Duchess Court laves, DE 19958.
The Municipal Utility has verified the applicant's average electric consumption in Appendix A. Yes No
The Municipal Utility has verified at the time of installation that the installed electric generator is designed to produce no more than 110% of the applicant's/customer's average annual electric consumption as calculated in Appendix A.  Yes  No
Signed (Municipal Utility): Date: 11/21/18
Print Name & Title: Aystra Calaman Assistent Ceneral Manager
Reason of Not Approving:

Approval to connect to the municipal system indicates only that the minimum requirements for a safe proper interconnection have been satisfied. Such approval does not imply that the Generator Owner's facility meets all federal, state and local standards or regulations.

Section 12. Municipal Internal Notifications	/
Send Applicant Warning Label for installing on/ near service meter:	Yes Yes
Notify Billing Dept. of Interconnected Generation:	Yes
Notify District Engineering of Interconnected Generation:	Yes
Notify System Protection of Interconnected Generation:	Yes
Notify Municipal Building Department:	Yes
A copy of the approved Part II Final As-Built Details must be sent to the Delaware Municipal Electric Corporation ("DEMEC").	Yes

DEMEC P.O. Box 310 Smyrna, DE 19977



Alutech United, Inc. James Rodrigue PO Box 329 Selbyville, DE 19975 First State Inspection Agency, Inc. 1001 Mattlind Way Milford, DE 19963

> 1-800-468-7338 302-422-3859

## CERTIFICATE

Final Inspection Date: Application #: Owner:

Customer Job #: Occupancy: Location: 11/06/2018 53555 James Sturt Gri

James Stuart Griffin

Solar Array 9.92 KW 8 Duchess Ct. Lewes, De Sussex County

This certifies that the installation of electrical equipment listed on referenced application has been approved as meeting the requirements of the National Electric Code, utility, municipalities and Agency rules. Any modification, addition or alteration of the electrical system, after the date of final inspection, will require a new application for inspections and certifications.

Chief Electrical Inspector

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